

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Canceled)
2. (Previously presented) The laser system of claim 34 wherein the optical channel comprises two optical channels and said transmission is simultaneous along the two optical channels.
- 3-7. (Canceled)
8. (Previously Presented) The laser system of claim 34 wherein said head includes a digit clip.
- 9-33. (Canceled)
34. (Currently Amended) A laser system for therapeutic treatment of bacteria microbes in an infected site, the system comprising:
  - (a) a laser oscillator system ~~configured and arranged to~~ which selectively ~~[[emit]] emits~~ near infrared radiation at a power density in ~~one or both~~ ~~[[of]]~~ a first wavelength range of ~~[[about]]~~ 865 nm to ~~[[about]]~~ 875 nm and a second wavelength range of ~~[[about]]~~ 925 nm to ~~[[about]]~~ 935 nm,
  - (b) a control connected to the laser oscillator system, ~~the control configured and arranged to control~~ which controls the selective emission of the near infrared energy radiation at the power density from the laser oscillator system for absorption by endogenous ~~bacterial microbial~~ chromophores ~~as non-ionizing optical energy~~ to photodamage bacteria microbes at the infected site without detrimental heat deposition or irreversible harm to the biological system at the infected site;

(c) an optical channel connected to the laser oscillator system, ~~the optical channel configured and arranged for transmission of~~ to transmit the near infrared radiation; and

(d) a head ~~configured and arranged to deliver~~ which delivers the near infrared energy transmitted through the optical channel from the laser oscillator system ~~and the optical channel~~ to bacteria microbes in the infected site at the power density for absorption at the infected site;

wherein the power of the delivered infrared radiation in the first and second wavelength ranges is the majority of the total power of near infrared radiation delivered to the infected site.

35. (Currently Amended) The system of claim 34, wherein the control is configured and arranged to adjust the power density of the emitted near infrared ~~[[energy]]~~ radiation, forming an adjusted power density, wherein the adjusted power density comprises a necessary ~~baetericidal~~ microbicidal density to photodamage bacteria microbes at the infected site.

36. (Canceled)

37. (Currently Amended) The system of claim 34, further comprising a housing ~~configured and arranged to hold~~ which holds the laser oscillator system.

38-44. (Canceled)

45. (Cancelled)

46. (Currently Amended) The system of claim 45, wherein the near infrared ~~energy~~ radiation from the laser oscillator system comprises a first portion at about 870 nm and a second portion at about 930 nm.

47. (Currently Amended) The system of claim 45, wherein the control ~~is configured and arranged to adjust~~ adjusts the power density of the emitted near infrared ~~[[energy]]~~ radiation,

forming an adjusted power density, wherein the adjusted power density comprises density sufficient to photodamage ~~baeteria~~ microbes at the infected site without causing substantial thermolysis of ~~baeteria~~ microbes at the infected site.

48. (Currently Amended) The system of claim 47, wherein the control is configured and arranged to adjust the power density of the emitted near infrared [[energy]] radiation to create reactive oxygen species to photodamage ~~baeteria~~ microbes at the infected site without causing substantial thermolysis of ~~baeteria~~ microbes at the infected site.

49. (Cancelled)

50. (New) The laser system of claim 34, wherein, during operation, the near infrared radiation in the first and second wavelength ranges is delivered simultaneously to the infected site.

51. (New) The laser system of claim 34, wherein, during operation, the near infrared radiation in the first wavelength range is delivered to the infected site alternately with the near infrared radiation in the second wavelength range.

52. (New) The laser system of claim 34, wherein, during operation, the near infrared radiation in the first wavelength range is multiplexed with the near infrared radiation in the second wavelength range for delivery to the infected site.